GPS: Trimble Pathfinder Systems

Course No. 1730-56

Course Description

This 3 day course is a comprehensive suite of principles, techniques, and hands-on practice to learn to use GPS equipment/software, export collected data, view GPS data in a GIS, and integrate photo documentation. Course emphasis is on how to design and complete a GPS project with confidence. Equipment and software used during the course for project planning and field exercises includes Trimble Mapping GPS receivers, TerraSync software, Pathfinder Office software, ESRI ArcGIS and Geospatial Experts GPS-Photo Link.

Course topics include:
Pre-Field: Quick Plan, Pathfinder Office software, data dictionaries, GPS receiver/datalogger and camera configuration, datums and coordinate systems.

Field: Data collection techniques for features and digital photos, hands-on exercises.

Post-Field: Differential correction, edit GPS positions, export shapefiles, import to geodatabase, populate metadata, geo-tagging digital photos.

Objective

Through classroom discussion and hands-on exercises the participant will be able to plan and complete a GPS project, confidently collect field data, import GPS data into a personal geodatabase, integrate geo-tagged photos with GPS, and display project data in ArcMap.

Target Group

Field specialists who are actively involved with GPS data collection and processing. GIS specialists who are involved in GPS data analysis and maintenance.

Prerequisites

Participants must bring a GPS receiver to use during the course.

At a minimum, participants must be familiar with ESRI ArcGIS software and the fundamentals of the GPS system. Participants who are getting started or need to hone their skills using either GIS or GPS will be given additional informed about the ESRI online virtual campus course "Learning ArcGIS Desktop" and the self study tutorial about the Global Positioning System (GPS).

Length   3 days

Contact   Diane C. Nelson / (602) 906-5548 / diane_nelson@blm.gov